## **CLAIMS**

What is claimed is:

1. An indenting tool comprising:

a shank having a tip end;

a diamond affixed to said tip end by a braze material, said diamond forming a point of the tool; and

said diamond being mounted to said tip end within 8 degrees of a <17,12,24> direction.

- 2. An indenting tool according to claim 1, wherein said shank is formed from at least one of a hardened tool steel, stainless steel, and a cemented carbide.
- 3. An indenting tool according to claim 1, further comprising a head formed adjacent a second end of said shank.
- 4. An indenting tool according to claim 3, wherein said head is wider than said shank.
- 5. An indenting tool according to claim 1, wherein said diamond is a single crystal diamond.
- 6. An indenting tool according to claim 1, wherein said diamond is a single crystal diamond nearly free of defects.
- 7. An indenting tool according to claim 1, wherein said diamond comprises a synthetic single crystal diamond.
- 8. An indenting tool according to claim 1, wherein said diamond in a final ground state has a length greater than an indentation depth to be imparted to a part to be marked.
- 9. An indenting tool according to claim 1, wherein said diamond has a 90 degree included angle conical point.

- 10. An indenting tool according to claim 1, wherein said diamond has a 120 degree included angle conical point.
- 11. An indenting tool according to claim 1, wherein said braze material comprises a brazing alloy which wets both said diamond and the material forming said shank.
- 12. An indented tool according to claim 1, wherein said tip end of said shank is tapered.
- 13. An indenting tool comprising:
  - a shank having an end;
  - a diamond secured to said end in a wear resistant orientation; and said wear resistant orientation being within 8 degrees of a <17, 12, 24> direction.
- 14. A method of making an indenting tool, comprising the steps of:

providing a shank having an end;

providing a diamond;

positioning said diamond in a wear resistant orientation;

securing said diamond to an end; and

said positioning step comprising positioning said diamond in a wear resistant orientation of within 8 degrees of a <17, 12, 24> direction.